



STIC Search Report

EIC 2600

73

STIC Database Tracking Number: 172195

TO: Brian Le
Location: KPX9A61
Art Unit : 2621
Tuesday, November 22, 2005

Case Serial Number: 09/699614

From: Samir Patel
Location: EIC 2600
KNX-8B68
Phone: 571-272-3537

Samir.patel@uspto.gov

Search Notes

Dear Examiner,

Attached are the search results (from commercial databases) for your case.

Tags mark the patent/articles, which might be of interest. After you review all records including tagged and untagged records, if you wish to order the complete text of any record, please submit request(s) directly to the STIC-EIC 2600 Email Box.

Please call if you have any questions or suggestions, and I have enclosed a Search Results Feedback Form to facilitate further comments or suggestions.

Thanks

Samir Patel

87
RUSH SPE SIGNATURE _____

Access DB# 172195

SEARCH REQUEST FORM
Scientific and Technical Information Center

EIC 2600

79178

Requester's Full Name Brian Lee Examiner # 2621 Date 11/21/05
Art Unit 2621 Phone Number _____ Serial Number 09/699414
Office Location _____ Format preferred (circle) PAPER EMAIL BOTH

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.

Please state how the terms or keyword strings should relate to one another.

Title of the Invention _____
Inventor(s) _____

Earliest Priority date to be used 10/30/2000

STAFF USE ONLY

Searcher Sunit Patel TYPE of Search _____
Phone 2-3537 Text _____
Location KN X RRB68 Litigation _____
Date picked up 11/21/05 / 10:00AM Other _____
Date completed 11/21/05 / 3:00PM
Search Prep/review 100
Online Time 140

Databases Searched

Dialog
STN
QuestelOrbit
LEXIS/NEXIS
Courtlink
Other



Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8277	fan:ti:	USPAT	OR	ON	2005/11/22 15:35
L2	13185	fan with blades	USPAT	OR	ON	2005/11/22 15:36
L3	37	fan:with:blades:with:skew	USPAT	OR	ON	2005/11/22 15:41
L4	0	target same fan with blades with skew	USPAT	OR	ON	2005/11/22 15:42
L5	161	target with fan near shap\$4	USPAT	OR	ON	2005/11/22 15:42
L6	23	target near2 fan near shap\$4	USPAT	OR	ON	2005/11/22 15:43
L7	4	("3502562" "4200510" "4297189").PN	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/22 15:44

File 2:INSPEC 1898-2005/Nov W2
 (c) 2005 Institution of Electrical Engineers
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 (c) 2005 NTIS, Intl Cpyrght All Rights Res
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 File 95:TEME-Technology & Management 1989-2005/Oct W3
 (c) 2005 FIZ TECHNIK
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 (c) 2005 The HW Wilson Co.
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 File 239:Mathsci 1940-2005/Jan
 (c) 2005 American Mathematical Society
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
 (c) 2002 The Gale Group
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 File 483:Newspaper Abs Daily 1986-2005/Nov 21
 (c) 2005 ProQuest Info&Learning
 File 248:PIRA 1975-2005/Oct W5
 (c) 2005 Pira International

Set	Items	Description
S1	6909751	TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT???
		OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2	237345	FAN??
S3	128339	BLADE??
S4	4747	(ALTER?????? OR CHANG???? OR DIFFERENT?? OR NONZERO?? OR N- ON()ZERO??) (5N) (SKEW?? OR SPIRAL??)
S5	5546	RADIAL?? (5N) (CURV?? OR CURVATUR?? OR (ROUND?? OR CIRCUL??- ???) (5N) (BOUND?? OR EDG?? OR PERIMETER?? OR CIRCUMFEREN???) OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6	4302346	SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7	559	(DISTINGUISH?? OR DIFFERENTIA????? OR DIFFER???? OR DIFFE- REC???? OR SEPARAT???? OR DISCRIMINAT???) (5N) BLAD???(5N) S6
S8	9608	(S2 OR S3) (5N) S6
S9	275	AU=(SILVER W? OR SILVER, W?)
S10	0	S8 AND S1 AND S4 AND S5
S11	0	S8 AND S1 AND S4
S12	0	S8 AND S4 AND S5
S13	12	S8 AND (S4 OR S5)
S14	11	RD (unique items)
S15	9	S14 NOT PY>2000
S16	3	S7 AND (S4 OR S5)

S17 3 RD (unique items)
S18 2 S8 AND SKEW??? AND RADIAL??
S19 2 S18 NOT (S13 OR S17)
S20 0 (S2 OR S3) AND S1 AND S4 AND S5
S21 1 (S2 OR S3) AND S4 AND S5
S22 0 S9 AND (S2 OR S3)
?

S15 9 S14 NOT PY>2000
? type/3,k/all

15/3,K/1 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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1910306 NTIS Accession Number: N95-33804/2
Use of TOPSAR Digital Elevation Data to Determine the 3-Dimensional Shape of an Alluvial Fan
Farr, T. G.
Jet Propulsion Lab., Pasadena, CA.
Corp. Source Codes: 014828000; JJ574450
Sponsor: National Aeronautics and Space Administration, Washington, DC.
23 Jan 95 4p
Languages: English Document Type: Journal article
Journal Announcement: GRAI9524; STAR3312
In Its Summaries of the Fifth Annual JPL Airborne Earth Science Workshop.
Volume 3: Airsar Workshop p 9-12.
NTIS Prices: (Order as N95-33801, PC A04/MF A01)

Use of TOPSAR Digital Elevation Data to Determine the 3-Dimensional Shape of an Alluvial Fan
...to separate the effects of tectonic (uplift) and climatic (weathering, runoff, sedimentation) processes on the **shapes** of alluvial fan units, a modified conic equation developed by Troeh (1965) was fitted to TOPSAR digital topographic...
...alluvial fan in Death Valley, California. This allows parameters for the apex position, slope, and **radial curvature** to be compared with unit age.

15/3,K/2 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS
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1799308 NTIS Accession Number: AD-A277 325/7
Incorporating Radial Mixing in Axisymmetric Streamline Curvature Through-Flow Analysis
(Final technical rept. May 92-Sep 93)
Grabowska, D. G. ; Kavanagh, P.
Iowa State Univ., Ames. Engineering Research Inst.
Corp. Source Codes: 001712028; 404418
Sponsor: Air Force Office of Scientific Research, Bolling AFB, DC.
Report No.: ISU-ERI-AMES-94-088; AFOSR-TR-94-0079
Sep 93 114p
Languages: English
Journal Announcement: GRAI9413
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A06/MF A02

Incorporating Radial Mixing in Axisymmetric Streamline Curvature Through-Flow Analysis
... convergence is obtained. Simple examples are presented to illustrate the solution technique. Turbomachinery flow analysis, **Radial mixing, Streamline curvature** solution.
Descriptors: *Axial flow; *Turbomachinery; Coding; Convergence; Curvature

; Fortran; Iterations; Patterns ; Turbine blades ; Inviscid flow;
Computer programs

15/3,K/3 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS
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0409223 NTIS Accession Number: AD-769 033/2/XAB
Measured and Predicted Flow near the Exit of a Radial-Flow Impeller
McDonald, G. B. ; Lennemann, E. ; Howard, J. H. G.
Waterloo Univ (Ontario) Dept of Mechanical Engineering
Corp. Source Codes: 401536
21 Dec 70 7p
Document Type: Journal article
Journal Announcement: GRAI7324
Presented at the Gas Turbine Conference and Products Show, Houston, Tex.,
28 Mar-1 Apr 71, of the American Society of Mechanical Engineers. (Paper
71-GT-15).
Pub. in Transactions of the ASME: Jnl. of Engineering for Power, p441-446
Oct 71.
NTIS Prices: Not available NTIS

Experimental measurements are presented of the velocity field near the exit of a **radial impeller** with **backward- curved blades**. The flow pattern and its variation with changes in the flow coefficient are compared with numerical predictions on...

15/3,K/4 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

02934385 E.I. Monthly No: EI9008091574
Title: Modeling and calculation of jet foam extinguishers.
Author: Betoshkin, A. G.
Corporate Source: Moscow Inst of Chemical Engineering, Moscow, USSR
Source: Theoretical Foundations of Chemical Engineering (English
Translation of Teoreticheskie Osnovy Khimicheskoi Tekhnologii) v 22 n 6 Jul
1989 p 535-540
Publication Year: 1989
CODEN: TFCEAU ISSN: 0040-5795
Language: English

Abstract: The semiempirical theory of turbulent steams and the equation of the **boundary layer** for axially symmetrical **circular** and **radial fan - shaped** jets have been used to determine their coordinates, at which the conditions for foam breakdown...

...reached, and the velocity of foam supply to the mixing zone.
Calculations of the radial **fan - shaped** jet, at which conditions are reached for the breakdown of the foam, are in satisfactory...

Identifiers: BOUNDARY LAYER; **FAN - SHAPED JETS**; FOAM BREAKDOWN;
HYDRAULIC RESISTANCE; JET FOAM FIRE EXTINGUISHERS; TURBULENT FLOW

15/3,K/5 (Item 2 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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01859962 E.I. Monthly No: EIM8503-015385

Title: THEORETICAL INVESTIGATION OF THE OPERATING BEHAVIOUR OF ROTATING RADIAL BLADINGS DUE TO THE VARIATION OF THE REYNOLDS NUMBER.

Author: Steck, E.; Felsch, K. O.

Corporate Source: Univ Karlsruhe, Inst fuer Stroemungslehre und Stroemungsmaschinen, Karlsruhe, West Ger

Conference Title: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the Third International Conference.

Conference Location: Seattle, WA, USA Conference Date: 19830808

E.I. Conference No.: 05656

Source: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the International Conference. 3rd. Publ by Pineridge Press, Swansea, Wales p 500-508

Publication Year: 1983

CODEN: NMLFEV ISBN: 0-906674-22-0

Language: English

Abstract: The plane laminar flow through rotating **radial** cascades with backwardly **curved** vanes is covered. The density and viscosity of the fluid are assumed to be constant...

...the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours**. For the solution of the boundary value problem, an implicit difference method was used. The...

15/3,K/6 (Item 3 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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01614271 E.I. Monthly No: EI8412136583 E.I. Yearly No: EI84103377

Title: Calculation of the Plane Flow Through Rotating Radial Cascades.

Title: BERECHNUNG DER EBENEN STROEMUNG DURCH ROTIERENDE RADIALE SCHAFELGITTER.

Author: Steck, E.

Source: VDI Ber 424, Hydraul Stroemungsmasch, Braunschweig, West Ger, Oct 14-16 1981. Publ by VDI Verlag, Duesseldorf, West Ger, 1981 p 167-172

Publication Year: 1981

CODEN: VDIBAP ISSN: 0083-5560

Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours**. For solving the boundary value problem an implicit difference method is used. The operating behavior...

15/3,K/7 (Item 4 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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01338201 E.I. Monthly No: EI8303023109 E.I. Yearly No: EI83101762

Title: Calculation Method for Behavior of Rotary Radial Cascades.

Title: BERECHNUNG DES BETRIEBSVERHALTENS ROTIERENDER RADIALGITTER.

Author: Steck, Ewald

Corporate Source: Univ Karlsruhe, Ger

Source: Stroemungsmechanik und Stroemungsmaschinen n 30 1981 p 1-40

Publication Year: 1981

CODEN: SMSMC4 ISSN: 0585-427X

Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with arbitrarily backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the Navier-Stokes equations are transformed to nonorthogonal coordinates aligned with the **blade contours**. For solving the boundary value problem an implicit difference method of second order is applied...

15/3,K/8 (Item 5 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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00940175 E.I. Monthly No: EI8008060359 E.I. Yearly No: EI80041899
Title: EFFECT OF TIP SHAPE ON BLADE LOADING CHARACTERISTICS AND WAKE GEOMETRY FOR A TWO-BLADED ROTOR IN HOVER.
Author: Ballard, John D.; Orloff, Kenneth L.; Luebs, Alan
Corporate Source: NASA, Ames Res Cent, Moffett Field, Calif
Source: Journal of the American Helicopter Society v 25 n 1 Jan 1980 p 30-35
Publication Year: 1980
CODEN: JHESAK ISSN: 0002-8711
Language: ENGLISH

Title: EFFECT OF TIP SHAPE ON BLADE LOADING CHARACTERISTICS AND WAKE GEOMETRY FOR A TWO-BLADED ROTOR IN HOVER.
...Abstract: velocity tangent to a closed rectangular contour around the airfoil section at a number of **radial** locations. A relationship between local **circulation** and **bound** vorticity was invoked to obtain the radial variations in the sectional lifting properties of the...

15/3,K/9 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus
(c)2005 Japan Science and Tech Corp(JST). All rts. reserv.

04653650 JICST ACCESSION NUMBER: 00A0699563 FILE SEGMENT: JICST-E
Performance Characteristics of Controllable Pitch Side Thrusters with Different Skew Distributions. 1st Report. Open Water Characteristics of Side Thrusters.
YAMASAKI SHOSABURO (1); ISHIHARA YASUAKI (1)
(1) Nakashima Propeller Co., Ltd.
Nippon Zosen Gakkai Ronbunshu(Journal of the Society of Naval Architects of Japan), 2000, NO.187, PAGE.33-39, FIG.12, TBL.4, REF.4
JOURNAL NUMBER: G0242ABB ISSN NO: 0514-8499
UNIVERSAL DECIMAL CLASSIFICATION: 629.5.02
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

Performance Characteristics of Controllable Pitch Side Thrusters with Different Skew Distributions. 1st Report. Open Water Characteristics of Side Thrusters.
...ABSTRACT: DEG.(zero) pitch angle). Therefore, it is very important to consider changes of the geometrical **shapes** with the twist of impeller **blades** and their performance characteristics in the design of controllable pitch side thrusters. In the present...

...the backward skew type(B) are designed and the above-mentioned changes of the geometrical **shapes** with the twist of impeller **blades** are calculated and their open water characteristics are investigated theoretically and experimentally. The open water...

?

17/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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01859962 E.I. Monthly No: EIM8503-015385
Title: THEORETICAL INVESTIGATION OF THE OPERATING BEHAVIOUR OF ROTATING RADIAL BLADINGS DUE TO THE VARIATION OF THE REYNOLDS NUMBER.

Author: Steck, E.; Felsch, K. O.
Corporate Source: Univ Karlsruhe, Inst fuer Stroemungslehre und Stroemungsmaschinen, Karlsruhe, West Ger
Conference Title: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the Third International Conference.
Conference Location: Seattle, WA, USA Conference Date: 19830808
E.I. Conference No.: 05656
Source: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the International Conference. 3rd. Publ by Pineridge Press, Swansea, Wales p 500-508
Publication Year: 1983
CODEN: NMLFEV ISBN: 0-906674-22-0
Language: English

Abstract: The plane laminar flow through rotating **radial** cascades with backwardly **curved** vanes is covered. The density and viscosity of the fluid are assumed to be constant...
...the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours**. For the solution of the boundary value problem, an implicit **difference** method was used. The operating behaviour of the impeller was investigated considering the total head...

17/3,K/2 (Item 2 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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01614271 E.I. Monthly No: EI8412136583 E.I. Yearly No: EI84103377
Title: Calculation of the Plane Flow Through Rotating Radial Cascades.
Title: BERECHNUNG DER EBENEN STROEMUNG DURCH ROTIERENDE RADIALE SCHAFELGITTER.
Author: Steck, E.
Source: VDI Ber 424, Hydraul Stroemungsmasch, Braunschweig, West Ger, Oct 14-16 1981. Publ by VDI Verlag, Duesseldorf, West Ger, 1981 p 167-172
Publication Year: 1981
CODEN: VDIBAP ISSN: 0083-5560
Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours**. For solving the boundary value problem an implicit **difference** method is used. The operating behavior of the impeller is investigated considering the total head...

17/3,K/3 (Item 3 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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01338201 E.I. Monthly No: EI8303023109 E.I. Yearly No: EI83101762

Title: Calculation Method for Behavior of Rotary Radial Cascades.
Title: BERECHNUNG DES BETRIEBSVERHALTENS ROTIERENDER RADIALGITTER.
Author: Steck, Ewald
Corporate Source: Univ Karlsruhe, Ger
Source: Stroemungsmechanik und Stroemungsmaschinen n 30 1981 p 1-40
Publication Year: 1981
CODEN: SMSMC4 ISSN: 0585-427X
Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with arbitrarily backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the Navier-Stokes equations are transformed to nonorthogonal coordinates aligned with the **blade contours**. For solving the boundary value problem an implicit **difference** method of second order is applied. The operating behavior of the impeller is investigated considering...
?

19/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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00708674 E.I. Monthly No: EI7804027307 E.I. Yearly No: EI78056197
Title: THREE-DIMENSIONAL ANALYSIS OF BLADE FORCE AND SOUND GENERATION FOR
AN ANNULAR CASCADE IN DISTORTED FLOWS.

Author: Namba, M.

Corporate Source: Kyushu Univ, Fukuoka, Jpn

Source: Journal of Sound and Vibration v 50 n 4 Feb 22 1977 p 479-508

Publication Year: 1977

CODEN: JSVIAG ISSN: 0022-460X

Language: ENGLISH

...Abstract: the external disturbance flows that are sinusoidal in the circumferential direction, but possess a phase **skewing** in the **radial** direction. Correlations among the acoustic modes, the **blade** force modes and the flow **patterns** of the external disturbance have been investigated. When the predominant acoustic mode is subresonant, the...

...blade force amplitude is small. The generated sound power is effectively reduced by increasing the **radial** nonuniformity of the external disturbance. 6 refs.

19/3,K/2 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01171914 M98010972536

Experimental investigation of passive control on unstable characteristics in axial flow fan

Liang Xizhi; Wu Hai

Chinese Acad. of Sci., China

Chinese Journal of Mechanical Engineering. English Edition, v10, n4, pp248-252, 1997

Document type: journal article Language: English

Record type: Abstract

ISSN: 1000-9345

ABSTRACT:

...or blow off the air in the tip of rotor, small-scale casing treatment (axial, **skewed** and circumferential slots), tapered or straight hole, section rig, and blade-separator etc. can have...

...length. When approximately 50 % of the blade chord is exposed, the measurements indicate a strong **radial** flow from the rotor tip into the air-separator passage. Under these conditions, the air...

...suppress the circumferential velocity of the bleeding flow and improve the performance curve of the **fan**. By modifying the **shape** of the vane, the internal flow separation could be controlled. Subsequently, further modest improvements in...

21/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

07193899 E.I. No: EIP04538759256

Title: **Adjustability improvement of face-milling spiral bevel gears by modified radial motion (MRM) method**

Author: Wang, Pei-Yu; Fong, Zhang-Hua

Corporate Source: Department of Mechanical Engineering National Chung-Cheng University, Min-Hsiung, Chia Yi 621, Taiwan

Source: Mechanism and Machine Theory v 40 n 1 January 2005. p 69-89

Publication Year: 2005

CODEN: MHMTAS ISSN: 0094-114X

Language: English

...Abstract: existing lengthwise curvature modifications are primarily achieved by changing the cutter diameter or the cutter **blade** pressure angle with tilt cutter axis. However, both lengthwise curvature modifications need to rebuild the...

Identifiers: **Spiral bevel gears; Lengthwise curvature change ; Adjustability; Modified radial motion (MRM)**

?

File 344:Chinese Patents Abs Aug 1985-2005/May
(c) 2005 European Patent Office
File 347:JAPIO Nov 1976-2005/Jul(Updated 051102)
(c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200574
(c) 2005 Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	2565582	TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT??? OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2	187522	FAN??
S3	314060	BLADE??
S4	3345	(ALTER?????? OR CHANG???? OR DIFFERENT?? OR NONZERO?? OR N- ON()ZERO??) (5N) (SKEW?? OR SPIRAL??)
S5	3490	RADIAL?? (5N) (CURV?? OR CURVATUR?? OR (ROUND?? OR CIRCUL??- ???) (5N) (BOUND???? OR EDG?? OR PERIMETER?? OR CIRCUMFEREN???) OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6	5082601	SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7	846	(DISTINGUISH?? OR DIFFERENTIA????? OR DIFFER???? OR DIFFE- REC???? OR SEPARAT???? OR DISCRIMINAT???) (5N) BLAD???(5N) S6
S8	29680	(S2 OR S3) (5N) S6
S9	37	AU=(SILVER W? OR SILVER, W?)
S10	0	S8 AND S1 AND S4 AND S5
S11	3	S8 AND S1 AND S4
S12	0	S8 AND S4 AND S5
S13	90	S8 AND (S4 OR S5)
S14	3	S13 AND RADIAL?? AND SKEW??
S15	3	S14 NOT S11
S16	3	S7 AND (S4 OR S5)
S17	3	S16 NOT (S15 OR S11)
S18	11	S8 AND RADIAL?? AND SKEW???
S19	8	S18 NOT (S17 OR S15 OR S11)
S20	7	S19 NOT AD=20001030:20031122/PR
S21	7	S20 NOT AD=20031122:20051122/PR
S22	0	(S2 OR S3) AND S1 AND S4 AND S5
S23	0	(S2 OR S3) AND S4 AND S5
S24	1	S9 AND (S2 OR S3)
S25	1	S24 NOT (S17 OR S15 OR S11 OR S19)

11/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014011349 **Image available**
WPI Acc No: 2001-495563/200154

XRPX Acc No: N01-367126

Combustion chamber with circular ultrasonic self-excited oscillator for fuel atomizing

Patent Assignee: KOZYREV A V (KOZY-I)

Inventor: KOZYREV A V; KOZYREV V T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RU 2170884	C1	20010720	RU 2000106226	A	20000315	200154 B

Priority Applications (No Type Date): RU 2000106226 A 20000315

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
RU 2170884	C1		F23R-003/28	

Abstract (Basic):

... with main and secondary toroidal resonators connected acoustically and excited by air admitted through annular **skewed** nozzle **changing** to exponential acoustic horn. For opening the acoustic horn through 180 deg., use is made...

...smoothly distributed over circle of horn; these passages have segment-like cross-section and are **located** at distance no less than length of wave from horn neck; they are communicated with circular collector cavities available inside prechamber. Flame stabilizer is made in form of **fan - shaped** flat plates arranged transversely relative to flow of jets of liquid from jet passages.

11/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

009873701 **Image available**

WPI Acc No: 1994-153614/199419

XRPX Acc No: N94-120629

Electrostatic image copying appts using short paper conveyance path - has arm provided with LED and pivotally installed in upper body so as to facilitate attachment of photosensitive drum, and developing unit and paper supply cassette in lower body

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: LEE H

Number of Countries: 002 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2272864	A	19940601	GB 9224720	A	19921125	199419 B
DE 4239991	A1	19940601	DE 492239991	A	19921127	199423 N
GB 2272864	B	19960306	GB 9224720	A	19921125	199613
DE 4239991	B4	20050804	DE 492239991	A	19921127	200551 N

Priority Applications (No Type Date): GB 9224720 A 19921125; DE 492239991 A 19921127

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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GB 2272864 A 18 G03G-015/00
DE 4239991 A1 8 G03G-015/00
GB 2272864 B 1 G03G-015/00
DE 4239991 B4 G03G-015/00

...Abstract (Basic): A **fan - shaped** paper supply roller (2) and convey rollers (15,15') are **located** above a paper pressing plate (20). One of the convey rollers (15') having the larger...

...The rollers rotate at different speeds so as to produce minute speed differences due to **different** driving forces, thus aligning **skewed** sheets of paper. A friction pad (21) under the first convey roller (15') separates individual...

...Abstract (Equivalent): detachably installed in said lower body; a paper supply roller and a paper convey roller **located** on the same axis between said developing device and paper supply cassette; and image fixing...

11/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

004318221

WPI Acc No: 1985-145099/198524

XRAM Acc No: C85-063456

Continuous or batch materials mixer - with rotating blades and additional mixing elements shaped as archimedean spirals

Patent Assignee: CHILD FOOD PRODUCT (CHIL-R)

Inventor: FESHCHENKO N S; KIRZNER V E; VAVILIN V S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1126317	A	19841130	SU 3609633	A	19830727	198524 B

Priority Applications (No Type Date): SU 3609633 A 19830727

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1126317	A		3		

... **with rotating blades and additional mixing elements shaped as archimedean spirals**

...Abstract (Basic): central (6) and peripheral (7) plates, which are fixed on helical line an arms (8) **located** in intersecting planes. To intensify mixing by elimination of static zones in the mixer, it has additional mixing elements (9) in the shape of Archimedean **spirals alternating** with the mixing blades. Above the plates (6,7) are outer plates (10), in the...

?

15/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

011230795 **Image available**
WPI Acc No: 1997-208698/199719
XRPX Acc No: N97-172345

Propeller with skew e.g. for ships, power plant - has set of propeller blades with circular arch sloped edges , which protrude radially from boss part

Patent Assignee: MITSUBISHI JUKOGYO KK (MITO)
Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9058589	A	19970304	JP 95231964	A	19950817	199719 B
JP 3510395	B2	20040329	JP 95231964	A	19950817	200423

Priority Applications (No Type Date): JP 95231964 A 19950817

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9058589	A	3		B63H-001/26	
JP 3510395	B2	3		B63H-001/26	Previous Publ. patent JP 9058589

**Propeller with skew e.g. for ships, power plant...
...has set of propeller blades with circular arch sloped edges , which protrude radially from boss part**

...Abstract (Basic): The propeller has a set of blades (1a), installed radially protruding from a boss part (4). The edge (2a) of the blade has a circular arc shape .

...

...A skew is individually fixed from joint to tip of the blade, along the rotation direction and

...Title Terms: SKEW ;

15/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

009744047 **Image available**
WPI Acc No: 1994-023898/199403
XRPX Acc No: N94-018535

Production of spiral cutting blades - employs rolling of annular semi between skew rollers with in-line sharpening and surface hardening of edge

Patent Assignee: UKR AGRIC ACAD (UAGR)
Inventor: IZAAK T YA; OBUKHOVA V S; PILIPAKA S F
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1784388	A1	19921230	SU 4683225	A	19890427	199403 B

Priority Applications (No Type Date): SU 4683225 A 19890427

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1784388	A1	4		B21H-007/10	

... employs rolling of annular semi between skew rollers with in-line

sharpening and surface hardening of edge
...Abstract (Basic): A stand for forming of spiral- shaped cutting blades by rolling a flat ring semi of constant radius between three staggered deforming rolls behind...
...4) are arranged so as to produce bending along a constant angle (alpha) in the **radial** direction. The axes of the rollers **alternate** between the advancing stock at **skew** angles to provide increasing deformation. An abrasive wheel (5) sharpens the edge of the spiral...
...Title Terms: **SKEW** ;

15/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

009425405 **Image available**
WPI Acc No: 1993-118921/199315
XRPX Acc No: N93-090711

One-piece axial flow fan for cooling modules of automotive vehicles - has fan supporting blades with crests joining circular band concentric with and outwardly spaced from fan hub
Patent Assignee: SIEMENS AUTOMOTIVE LTD (SIEI); SIEMENS ELECTRIC LTD (SIEI)

Inventor: GALLIVAN W P; PERIYATHAMBY H K
Number of Countries: 005 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 536662	A1	19930414	EP 92116931	A	19921002	199315 B
US 5244347	A	19930914	US 91775163	A	19911011	199338
EP 536662	B1	19951220	EP 92116931	A	19921002	199604
DE 69206943	E	19960201	DE 606943	A	19921002	199610
			EP 92116931	A	19921002	

Priority Applications (No Type Date): US 91775163 A 19911011

Patent Details:

Patent No	Kind	Land Pg	Main IPC	Filing Notes
EP 536662	A1	E 9	F04D-029/32	
				Designated States (Regional): DE FR GB IT
US 5244347	A	6	F04D-029/32	
EP 536662	B1	E 11	F04D-029/32	
				Designated States (Regional): DE FR GB IT
DE 69206943	E		F04D-029/32	Based on patent EP 536662

...Abstract (Basic): The fan (10) comprises a hub (12), rotatable about an axis (14), forwardly **skewed**, airfoil **shaped**, **fan blades** (16), distributed circumferentially around the hub and extending both **radially** and axially away from the hub...

...root (16R) joining with the hub, and a circular band (18) concentric with and spaced **radially** outwardly from the hub. A crest on the blades joins the band...

...Abstract (Equivalent): comprising a hub (12) that is rotatable about an axis (14), a plurality of forwardly **skewed**, airfoil- **shaped** **fan blades** (16) distributed circumferentially around said hub and extending both **radially** and axially away from said hub, a circular band (18) that is concentric with and spaced **radially** outwardly from said hub, each blade having a crest joining with said band, and characterised...

...Abstract (Equivalent): fan has an outer circular band that is spaced

axially rearwardly of the hub. Forwardly skewed blades extend between the band and hub. Each blade has a radially intermediate portion that has reverse **curvatures**, namely a radially inner section curving about a location that is axially rearwardly of the blade, and a radially outer section curving about a location that is axially forwardly of the blade...

...having a central mount for an electric motor that drives the fan. The shroud has radial members that extend from the edge of the shroud aperture to the hub and that...

17/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

06183643 **Image available**
FLUID MACHINE

PUB. NO.: 11-125193 [JP 11125193 A]
PUBLISHED: May 11, 1999 (19990511)
INVENTOR(s): HAYANO MAKOTO
 SAKATA KANJI
 MORISHIMA AKIRA
 OZU MASAO
APPLICANT(s): TOSHIBA CORP
APPL. NO.: 09-289847 [JP 97289847]
FILED: October 22, 1997 (19971022)

ABSTRACT

... to a cylinder 23 by means of the electrically driven mechanism part 7, and allows **spiral shaped blades** 39 **different** in **spiral pitch** to be formed into an operation chamber, are disposed on the upper and lower...

17/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015391771 **Image available**
WPI Acc No: 2003-453601/200343
XRPX Acc No: N03-361110

Air blower impeller of air conditioner, has several wing blades each having radius of curvature increased from front edge to trailing edge and with concave curve shape at windward side
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU); MATSUSHITA DENKI SANGYO KK (MATU)
Number of Countries: 002 Number of Patents: 002
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 2003148395 A 20030521 JP 2001343941 A 20011109 200343 B
CN 1417481 A 20030514 CN 2002149989 A 20021107 200355

Priority Applications (No Type Date): JP 2001343941 A 20011109

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003148395	A	5	F04D-029/38	
CN 1417481	A		F04D-029/38	

Abstract (Basic):

... provided at the circumference of a hub (3). The cross-section of wing blades along **radial** direction has concave **curve** shape at windward side and a convex curve shape at hub side. The radius of...
... The **figure** shows the cross-sectional view of wing **blade** along **different** radial direction. (Drawing includes non-English language text...)

17/3,K/3 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

010061705 **Image available**

WPI Acc No: 1994-329416/199441

XRAM Acc No: C94-149448

**Rubber mixing apparatus - includes lasing, rotating shaft, and
cylindrical rotating cutter, lubricating nozzle**

Patent Assignee: MITSUBISHI JUKOGYO KK (MITO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 6254844	A	19940913	JP 9341331	A	19930302	199441 B

Priority Applications (No Type Date): JP 9341331 A 19930302

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 6254844	A		3	B29B-007/80	

...Abstract (Basic): on the rotating shaft with an inclination to the guide cylinder, and pref. having a **spiral shape** with its **blades** having **different** heights and saw-tooth arrangement, (4) pref. a lubricating nozzle provided on the inlet of...

?

21/3, K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010988889 **Image available**

WPI Acc No: 1996-485838/199648

XRPX Acc No: N96-409227

Axial flow fan for motor vehicle heating/cooling systems - having skewed blade tip regions symmetrically attached hub to improve fan performance

Patent Assignee: VALEO THERMIQUE MOTEUR (VALO)

Inventor: ALIZADEH A

Number of Countries: 022 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9633345	A1	19961024	WO 96EP1660	A	19960418	199648 B
EP 766791	A1	19970409	EP 96913518	A	19960418	199719
			WO 96EP1660	A	19960418	
US 5616004	A	19970401	US 95425991	A	19950419	199719
JP 10501867	W	19980217	JP 96531491	A	19960418	199817
			WO 96EP1660	A	19960418	
MX 9606657	A1	19970301	MX 966657	A	19961218	199820
KR 97704115	A	19970809	WO 96EP1660	A	19960418	199836
			KR 96707239	A	19961217	
MX 190722	B	19981214	MX 966657	A	19961218	200045
CN 1150834	A	19970528	CN 96190358	A	19960418	200127
EP 766791	B1	20020619	EP 96913518	A	19960418	200240
			WO 96EP1660	A	19960418	
DE 69621890	E	20020725	DE 621890	A	19960418	200256
			EP 96913518	A	19960418	
			WO 96EP1660	A	19960418	

Priority Applications (No Type Date): US 95425991 A 19950419

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9633345 A1 E 29 F04D-029/38

Designated States (National): CN JP KR MX

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

EP 766791 A1 E Based on patent WO 9633345

Designated States (Regional): DE ES FR GB IT

US 5616004 A 25 F04D-029/30

JP 10501867 W 28

Based on patent WO 9633345

KR 97704115 A

Based on patent WO 9633345

MX 190722 B F04D-029/030

CN 1150834 A F04D-029/38

EP 766791 B1 E F04D-029/38

Based on patent WO 9633345

Designated States (Regional): DE ES FR GB IT

DE 69621890 E F04D-029/38

Based on patent EP 766791

Based on patent WO 9633345

... having skewed blade tip regions symmetrically attached hub to improve fan performance

...Abstract (Basic): to hub (2) with each blade having leading (24) and trailing (25) edges and a radially inner region (20) extending to a tip region. The leading edge tip region (21) is...

...so as to be relatively further from the plane than the leading edge of the radially inner region. The sweep of the tip region may be neutral at the medial line...

...Abstract (Equivalent): the axis of rotation, each blade having a leading edge, a trailing edge and a **radially** inner region extending to a tip region, comprising a leading portion of the tip region swept relative to the **radially** inner region in a first direction with respect to the back plane that is perpendicular...

...of the fan and a trailing portion of the tip region swept relative to the **radially** inner region in a second opposite direction with respect to said plane, wherein the **radially** inner region has an arc shaped cross-section, taken along a **blade** circumferential line, such that the bending ratio, defined as ratio of the maximum deviation from the chord at said circumferential line to the length of the chord, decreases over the **radially** innermost portion of the **radially** inner region of each blade, and then increases over a **radially** adjacent portion of the **radially** inner region...

...Title Terms: **SKEW** ;

21/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

009667569 **Image available**
WPI Acc No: 1993-361120/199346
Related WPI Acc No: 1999-256694
XRPX Acc No: N93-278787

One piece axial flow fan for use in cooling modules of motor vehicles - has circular outer band coacting with surrounding shroud structure of two parts cooperatively defining radially inwards open groove receiving flange of fan band to form labyrinth seal

Patent Assignee: SIEMENS CANADA LTD (SIEI); SIEMENS AUTOMOTIVE LTD (SIEI); SIEMENS ELECTRIC LTD (SIEI); SIEMENS VDO AUTOMOTIVE INC (SIEI)

Inventor: GALLIVAN W P; JOSEPH A S; PERIYATHAMBY H K

Number of Countries: 006 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 569863	A1	19931118	EP 93107390	A	19930506	199346 B
US 5326225	A	19940705	US 92884968	A	19920515	199426
			US 9391074	A	19930712	
EP 569863	B1	20000329	EP 93107390	A	19930506	200020
			EP 98124305	A	19930506	
DE 69328212	E	20000504	DE 93628212	A	19930506	200029
			EP 93107390	A	19930506	
JP 3481970	B2	20031222	JP 93136981	A	19930517	200401
EP 913584	B1	20050720	EP 93107390	A	19930506	200547
			EP 98124305	A	19930506	

Priority Applications (No Type Date): US 92884968 A 19920515; US 9391074 A 19930712

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 569863	A1	E	9	F04D-029/32	
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Designated States (Regional): DE FR GB IT

US 5326225	A	9	F04D-029/38	Cont of application US 92884968
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EP 569863	B1	E	F04D-029/32	Related to application EP 98124305
				Related to patent EP 913584

Designated States (Regional): DE FR GB IT

DE 69328212	E	F04D-029/32	Based on patent EP 569863
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JP 3481970	B2	8 F04D-029/38	Previous Publ. patent JP 6147194
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EP 913584	B1	E	F04D-029/16	Div ex application EP 93107390
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Div ex patent EP 569863

Designated States (Regional): DE FR GB IT

... has circular outer band coacting with surrounding shroud structure of two parts cooperatively defining radially inwards open groove receiving flange of fan band to form labyrinth seal

...Abstract (Basic): The fan comprises a hub rotatable about an axis with several skewed, airfoil shaped fan blades distributed circumferentially around the hub. They extend both radially and axially away from the hub. Each blade has a root joining with the hub, and a circular band that is concentric with it spaced radially outwards from the hub...

...which is perpendicular to the axis. The groove has three walls, two axially spaced apart radial walls, and an axial wall...

...Abstract (Equivalent): form a labyrinth air seal. The shroud structure comprises two parts that cooperatively define a radially inwardly open groove within which a flange of the fan band is received to form

...

...Title Terms: RADIAL ;

21/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

009205648 **Image available**

WPI Acc No: 1992-333069/199241

XRXPX Acc No: N92-254206

Burner for gas turbine drive unit with at least one fuel nozzle - incorporates torsion device for combustion air feed which is regulatable dependent on load

Patent Assignee: MTU MUENCHEN GMBH (MOTU)

Inventor: BERGER J; SIMON B

Number of Countries: 017 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4110507	A	19921001	DE 4110507	A	19910330	199241 B
WO 9217736	A1	19921015	WO 92EP425	A	19920227	199244
EP 577618	A1	19940112	EP 92905564	A	19920227	199402
			WO 92EP425	A	19920227	
DE 4110507	C2	19940407	DE 4110507	A	19910330	199413
JP 6507231	W	19940811	JP 92504950	A	19920227	199436
			WO 92EP425	A	19920227	
EP 577618	B1	19950517	EP 92905564	A	19920227	199524
			WO 92EP425	A	19920227	
US 5490378	A	19960213	WO 92EP425	A	19920227	199612
			US 93122493	A	19931207	
JP 3150971	B2	20010326	JP 92504950	A	19920227	200126
			WO 92EP425	A	19920227	

Priority Applications (No Type Date): DE 4110507 A 19910330

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 4110507 A 11 F23R-003/14

WO 9217736 A1 G 25 F23C-007/00

Designated States (National): JP US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU MC NL SE

EP 577618 A1 G 25 F23C-007/00 Based on patent WO 9217736

Designated States (Regional): CH DE FR GB IT LI SE
 DE 4110507 C2 12 F23R-003/26
 JP 6507231 W F23R-003/26 Based on patent WO 9217736
 EP 577618 B1 G 16 F23C-007/00 Based on patent WO 9217736
 Designated States (Regional): CH FR GB IT LI SE
 US 5490378 A 12 F23R-003/14 Based on patent WO 9217736
 JP 3150971 B2 9 F23R-003/26 Previous Publ. patent JP 6507231
 Based on patent WO 9217736

...Abstract (Basic): In the **radial** /tangential holes (3) between **radial** wall parts of the ring body (2) coaxial with the nozzle engage fingers (5) of...

...section with equal dimensions and equal peripheral distribution. The holes (3) are formed in wedge- **shaped** profiled end parts or **blade** profiles of the ring section...

...Abstract (Equivalent): In the **radial** /tangential holes (3) between **radial** wall parts of the ring body (2) coaxial with the nozzle engage fingers (5) of...

...section with equal dimensions and equal peripheral distribution. The holes (3) are formed in wedge- **shaped** profiled end parts or **blade** profiles of the ring section...

...is provided, between profiles (6) of an annular member (2) coaxial with the nozzle, with **radial** /tangential apertures (3) having a constant cross-section over their whole length which are distributed...

...Abstract (Equivalent): a ring-shaped swirling device (7) coaxially arranged **radially** outward and downstream from a longitudinal axis (13) through said fuel nozzle (9), said swirling...

...through said swirling device from the outer to the inner annular surface thereof in a **skewed** direction with respect to a **radial** from said longitudinal axis (13) and having same rectangular cross-sections along their entire length...

21/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX
 (c) 2005 Thomson Derwent. All rts. reserv.

008977891 **Image available**

WPI Acc No: 1992-105160/199214

XRXPX Acc No: N92-078778

Propeller blade runner - has leading edges of blade leaning in direction of runner rotation

Patent Assignee: DO H (DOHH-I); GENERAL ELECTRIC CANADA INC (GENE)

Inventor: DO H

Number of Countries: 003 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2020765	A	19920110			199214	B
CN 1058256	A	19920129	CN 91104596	A	19910709	199240
US 5226804	A	19930713	US 91713227	A	19910611	199329
CN 1026515	C	19941109	CN 91104596	A	19910709	199544
CA 2020765	C	20000222	CA 2020765	A	19900709	200029

Priority Applications (No Type Date): CA 2020765 A 19900709

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

CA 2020765 A 12
 CA 2020765 C E F01D-005/14
 US 5226804 A 6 B63H-001/02
 CN 1058256 A F03B-003/12
 CN 1026515 C F03B-003/12

...Abstract (Basic): The **shape** of each **blade** is such that a **radial** line drawn from the axis of the propeller through the point where the leading edge...

...Abstract (Equivalent): each blade of the propeller type runner has a leading edge which has a forward **skew** to produce a lean in the direction of rotation of said runner...

...The forward **skew** serves to reduce the cavitation effects on the runner by reducing localised water pressure gradients...

21/3,K/5 (Item 5 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2005 Thomson Derwent. All rts. reserv.

008211683 **Image available**
 WPI Acc No: 1990-098684/199013
 XRPX Acc No: N90-076315

Axial flow ring fan - has blades, forwardly skewed , extending radially between hub and ring, having sinusoidal shape

Patent Assignee: SIEMENS AUTOMOTIVE LTD (SIEI); SIEMENS AG (SIEI);
 SIEMENS-BENDIX AUTO (SIEI)

Inventor: BRACKETT S E; CHARLES H N

Number of Countries: 016 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4900229	A	19900213	US 89359241	A	19890530	199013 B
WO 9015254	A	19901213				199101
EP 474685	A	19920318	EP 90908230	A	19900529	199212
JP 4503392	W	19920618	JP 90507711	A	19900529	199231
			WO 90EP856	A	19900529	
CA 1324995	C	19931207	CA 608454	A	19890816	199404
EP 474685	B1	19941214	EP 90908230	A	19900529	199503
			WO 90EP856	A	19900529	
DE 69015184	E	19950126	DE 615184	A	19900529	199509
			EP 90908230	A	19900529	
			WO 90EP856	A	19900529	

Priority Applications (No Type Date): US 89359241 A 19890530

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4900229	A	7		

WO 9015254 A

Designated States (National): JP KR

Designated States (Regional): AT BE CH DE DK ES FR GB IT LU NL SE

EP 474685 A

Designated States (Regional): DE ES FR GB IT SE

JP 4503392 W F04D-029/38 Based on patent WO 9015254

EP 474685 B1 E 8 F04D-029/32 Based on patent WO 9015254

Designated States (Regional): DE ES FR GB IT SE

DE 69015184 E F04D-029/32 Based on patent EP 474685

Based on patent WO 9015254

CA 1324995 C F04D-029/38

... has blades, forwardly skewed , extending radially between hub and

ring, having sinusoidal shape

...Abstract (Basic): central hub (22), an outer ring (24), and a number of blades (26) that extend **radially** between hub and ring. The blades are forwardly **skewed** in the direction of fan rotation. The **shape** of a leading edge (28) of each blade is somewhat sinusoidal. It comprises an axially depressed region (32) that is **radially** inwardly of an axially raised region (34...).

...Abstract (Equivalent): Axial flow ring fan that has a plurality of forwardly **skewed** blades extending between a central hub and an outer ring, characterised in that each blade...

...Title Terms: **SKEW** ;

21/3,K/6 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

007788405 **Image available**

WPI Acc No: 1989-053517/198907

XRPX Acc No: N89-040813

Adjustable dia screw propeller - has hub with spindles synchronously turned in common direction and attached to respective blades

Patent Assignee: BIRD-JOHNSON CO (BIRD-N)

Inventor: NORTON J A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4801243	A	19890131	US 87120247	A	19871103	198907 B

Priority Applications (No Type Date): US 85792064 A 19851228; US 87120247 A 19871103

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4801243	A		7		

...Abstract (Basic): A hub has spindles each mounted in the hub for rotation about an axis disposed **radially** of the hub axis. A mechanism synchronously turns the spindles in a common direction...

...Propeller **blades** have a fixed pitch **contour** and a **skew** in the range of 60 to 90 deg. and are attached to respective ones of...

21/3,K/7 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

001868686

WPI Acc No: 1977-89724Y/197750

Rotary cutter with flexibly mounted blades - cooperating in skewed pairs to form shaped cuts, is useful for cut-resistant, thin plastics or fibrous material

Patent Assignee: PROCTER & GAMBLE CO (PROC)

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4061063	A	19771206				197750 B
DE 2756911	A	19780706				197828
CA 1069818	A	19800115				198007
DE 2756911	C	19871105				198744

Priority Applications (No Type Date): US 76754421 A 19761227

... cooperating in skewed pairs to form shaped cuts, is useful for cut-resistant, thin plastics or fibrous material

...Abstract (Basic): at least elastically mounted on rotatable shafts. The blades have equal length cutting edges equally radially spaced from their respective shafts. The axes of the rotatable shafts lie in intersecting planes so that the cooperating blades are skewed relative to each other by 1 to 6 degrees and thus have a single cutting point contact. The blades are shaped to produce desired shape cuts and are driven in timed relationship...

...Title Terms: SKEW ;
?

25/3, K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

014132411 **Image available**

WPI Acc No: 2001-616622/200171

XRPX Acc No: N01-459908

Kitchen shears has more than one curved cutting blade that cuts against the edges of a central rib that also supports wing shaped brackets suited to scoop from a bowl food to be cut

Patent Assignee: WENCO LLC (WENC-N); CHAN E (CHAN-I); CHORPASH R (CHOR-I); SILVER M I (SILV-I); SILVER W L (SILV-I); SPOOL I (SPOO-I)

Inventor: CHAN E; CHORPASH R; SILVER M I; SILVER W ; SPOOL I; SILVER W L

Number of Countries: 092 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200174550	A2	20011011	WO 2001US10853	A	20010404	200171 B
AU 200151280	A	20011015	AU 200151280	A	20010404	200209
US 20020020067	A1	20020221	US 2000194372	P	20000404	200221
			US 2001824786	A	20010404	
US 6453560	B1	20020924	US 2000194372	P	20000404	200266
			US 2001824786	A	20010404	
BR 200109778	A	20030121	BR 20019778	A	20010404	200309
			WO 2001US10853	A	20010404	
EP 1268139	A2	20030102	EP 2001924642	A	20010404	200310
			WO 2001US10853	A	20010404	
KR 2002087122	A	20021121	KR 2002713261	A	20021004	200320
CA 2434428	A1	20011011	CA 2392651	A	20010404	200360
			CA 2434428	A	20010404	
CA 2392651	C	20040113	CA 2392651	A	20010404	200412
			WO 2001US10853	A	20010404	
ZA 200207426	A	20040225	ZA 20027426	A	20020916	200419
ES 2200730	T1	20040316	EP 2001924642	A	20010404	200424
CA 2434428	C	20040608	CA 2392651	A	20010404	200438
			CA 2434428	A	20010404	
EP 1268139	B1	20041013	EP 2001924642	A	20010404	200467
			WO 2001US10853	A	20010404	
DE 60106408	E	20041118	DE 106408	A	20010404	200476
			EP 2001924642	A	20010404	
			WO 2001US10853	A	20010404	

Priority Applications (No Type Date): US 2000194372 P 20000404; US 2001824786 A 20010404

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200174550 A2 E 55 B26B-013/00

Designated States (National): AE AG AL AM AU AZ BA BB BG BR BY BZ CA CN CR CU CZ DM DZ EE FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LV MA MD MG MK MN MW MX MZ NO NZ PL RO RU SD SG SI SK SL TJ TM TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

AU 200151280 A B26B-013/00 Based on patent WO 200174550

US 20020020067 A1 B26B-013/00 Provisional application US 2000194372

US 6453560 B1 B26B-013/06 Provisional application US 2000194372

BR 200109778 A B26B-013/00 Based on patent WO 200174550

EP 1268139 A2 E B26B-013/00 Based on patent WO 200174550

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

KR 2002087122 A B26B-013/00

CA 2434428 A1 E B26B-013/02 Div ex application CA 2392651
CA 2392651 C E B26B-013/00 Based on patent WO 200174550
ZA 200207426 A 85 B26B-000/00
ES 2200730 T1 B26B-013/00 Based on patent EP 1268139
CA 2434428 C E B26B-013/02 Div ex application CA 2392651
EP 1268139 B1 E B26B-013/00 Based on patent WO 200174550
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE TR
DE 60106408 E B26B-013/00 Based on patent EP 1268139
Based on patent WO 200174550

Kitchen shears has more than one curved cutting blade that cuts against the edges of a central rib that also supports wing shaped brackets...

...Inventor: **SILVER W** ...

... **SILVER W L**

Abstract (Basic):

... The shears have a pair of curved **blades** (110) that pivot around a pin (101) together with a curved rib (120) that has cutting edges (122 and 126) to interact with the **blades**. Extending out from the sides of the rib are two wings (124) that take the...

... a) Hand operated shears with several pairs of **blades** curved toward each other...

...b) Hand operated shears with several **blades** and wings extending out from the outer **blades**

...

...when in a bowl and assist to grip the food in conjunction with the curved **blades** until the food is cut...

...Cutting **blades** (110)

...Title Terms: **BLADE** ;

?

File 9:Business & Industry(R) Jul/1994-2005/Nov 21
(c) 2005 The Gale Group

File 15:ABI/Inform(R) 1971-2005/Nov 22
(c) 2005 ProQuest Info&Learning

File 16:Gale Group PROMT(R) 1990-2005/Nov 22
(c) 2005 The Gale Group

File 20:Dialog Global Reporter 1997-2005/Nov 22
(c) 2005 Dialog

File 47:Gale Group Magazine DB(TM) 1959-2005/Nov 22
(c) 2005 The Gale group

File 75:TGG Management Contents(R) 86-2005/Nov W2
(c) 2005 The Gale Group

File 80:TGG Aerospace/Def.Mkts(R) 1982-2005/Nov 21
(c) 2005 The Gale Group

File 88:Gale Group Business A.R.T.S. 1976-2005/Nov 22
(c) 2005 The Gale Group

File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.

File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media

File 141:Readers Guide 1983-2004/Dec
(c) 2005 The HW Wilson Co

File 148:Gale Group Trade & Industry DB 1976-2005/Nov 22
(c) 2005 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 275:Gale Group Computer DB(TM) 1983-2005/Nov 21
(c) 2005 The Gale Group

File 264:DIALOG Defense Newsletters 1989-2005/Nov 21
(c) 2005 Dialog

File 369:New Scientist 1994-2005/Jul W4
(c) 2005 Reed Business Information Ltd.

File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS

File 484:Periodical Abs Plustext 1986-2005/Nov W2
(c) 2005 ProQuest

File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
(c) 2005 The HW Wilson Co

File 570:Gale Group MARS(R) 1984-2005/Nov 21
(c) 2005 The Gale Group

File 608:KR/T Bus.News. 1992-2005/Nov 22
(c) 2005 Knight Ridder/Tribune Bus News

File 620:EIU:Viewswire 2005/Oct 19
(c) 2005 Economist Intelligence Unit

File 613:PR Newswire 1999-2005/Nov 22
(c) 2005 PR Newswire Association Inc

File 621:Gale Group New Prod.Annou.(R) 1985-2005/Nov 22
(c) 2005 The Gale Group

File 623:Business Week 1985-2005/Nov 17
(c) 2005 The McGraw-Hill Companies Inc

File 624:McGraw-Hill Publications 1985-2005/Nov 21
(c) 2005 McGraw-Hill Co. Inc

File 634:San Jose Mercury Jun 1985-2005/Nov 20
(c) 2005 San Jose Mercury News

File 635:Business Dateline(R) 1985-2005/Nov 22
(c) 2005 ProQuest Info&Learning

File 636:Gale Group Newsletter DB(TM) 1987-2005/Nov 22
(c) 2005 The Gale Group

File 647:CMP Computer Fulltext 1988-2005/Nov W2
(c) 2005 CMP Media, LLC

File 696:DIALOG Telecom. Newsletters 1995-2005/Nov 22

(c) 2005 Dialog
 File 674:Computer News Fulltext 1989-2005/Oct W2
 (c) 2005 IDG Communications
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 587:Jane`s Defense&Aerospace 2005/Nov W2
 (c) 2005 Jane`s Information Group

Set	Items	Description
S1	22924538	TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT??? OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2	2163108	FAN??
S3	283432	BLADE??
S4	5292	(ALTER?????? OR CHANG?????? OR DIFFERENT?? OR NONZERO?? OR N- ON()ZERO??)(5N)(SKEW?? OR SPIRAL??)
S5	420	RADIAL??(5N)(CURV?? OR CURVATUR?? OR (ROUND?? OR CIRCUL??- ??)(5N)(BOUND???? OR EDG?? OR PERIMETER?? OR CIRCUMFEREN???) OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6	8952518	SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7	274	(DISTINGUISH?? OR DIFFERENTIA?????? OR DIFFER???? OR DIFFE- REC???? OR SEPARAT???? OR DISCRIMINAT???) (5N)BLAD???(5N)S6
S8	17669	(S2 OR S3)(5N)S6
S9	53	AU=(SILVER W? OR SILVER, W?)
S10	0	S8(S)S1(S)S4(S)S5
S11	0	S8(S)S1(S)S4
S12	0	S8(S)S4(S)S5
S13	6	S8(S)(S4 OR S5)
S14	6	RD (unique items)
S15	0	S7(S)(S4 OR S5)
S16	0	S7(S)SKEW???(S)RADIAL???
S17	0	S8(S)SKEW???(S)RADIAL??
S18	0	(S2 OR S3)(S)S1(S)S4(S)S5
S19	0	(S2 OR S3)(S)S4(S)S5
S20	2	S9 AND (S2 OR S3)
S21	1	RD (unique items)
S22	2	S7 AND SKEW?? AND RADIAL???
S23	2	RD (unique items)
S24	2	S23 NOT (S20 OR S13)

14/3,K/1 (Item 1 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

13505026 SUPPLIER NUMBER: 75262502 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Understanding fan vibration and imbalance.
Gutzwiller, Les; Kuli, Thomas J.
Plant Engineering, 55, 5, 38
May, 2001
ISSN: 0032-082X LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1810 LINE COUNT: 00166

... during each start, the fan rotor is nearly impossible to balance. Solid blade shapes (backward- curved , backward-inclined or radial -blade fan designs) are usually selected for centrifugal fans in extremely dirty or wet environments...

14/3,K/2 (Item 2 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

07711505 SUPPLIER NUMBER: 16630348 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Understanding centrifugal fans.
Gustafson, Tom
Plant Engineering, v49, n2, p50(3)
Feb 6, 1995
ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2029 LINE COUNT: 00161

...ABSTRACT: radial or backward curved. Each has different applications and operating ranges. To keep a centrifugal fan in optimum shape , an understanding of overload, stall and unstable operating range conditions is crucial prior to installation.

14/3,K/3 (Item 3 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04608507 SUPPLIER NUMBER: 09148809 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Evaluating ventilating fans.
Katzel, Jeanine
Plant Engineering, v44, n12, p44(7)
June 21, 1990
ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 3058 LINE COUNT: 00243

... important. * The forward-curved blade moves large volumes of air at relatively low speeds. The fan has small, cup- shaped blades curved forward in the direction of the wheel's rotation. Often called a squirrel-cage...

14/3,K/4 (Item 4 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

02836634 SUPPLIER NUMBER: 04147863 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Using inducers to improve high-speed pump performance.

Cameron, Lee; Maceyka, Thomas D.

Plant Engineering, v40, p41(3)

Feb 27, 1986

ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1398 LINE COUNT: 00112

... the normal number of blades are used, a rising curve will result with a radial- **blade** impeller. Figure 5 shows the rising curve obtained from test data using a two-stage pump.

This...

14/3,K/5 (Item 1 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

(c) 1999 The Gale Group. All rts. reserv.

00886462

Guidelines for the selection of industrial fans, their applications, operation and maintenance are discussed by JE Thompson and CJ Trickler of New York Blower Co.

Chemical Engineering March 21, 1983 p. 48-631

The **shape** and setting of a **fan** 's wheel blades primarily determine its performance characteristics. Fans used today can be classified into 5 groups in order of decreasing efficiency: backward inclined, axial, forward- **curved** , **radial** -tip and **radial** -blade. Fan selection mainly depends on the flow and pressure performance required for the application

...

14/3,K/6 (Item 1 from file: 484)

DIALOG(R)File 484:Periodical Abs Plustext

(c) 2005 ProQuest. All rts. reserv.

06804647 SUPPLIER NUMBER: 850223701

Ancient sand-rich submarine fans: depositional systems, models, identification, and analysis

Mattern, F

Earth - Science Reviews (PESR), v70 n3/4, p167-202

May 2005

ISSN: 0012-8252 JOURNAL CODE: PESR

DOCUMENT TYPE: Feature

LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT: Sand-rich submarine fans are **radial** or **curved** in plan view depending on the slope of the basin floor. They occur isolated or...

...are fed more or less directly by regional rivers. The type of ancient fan system (**radial** , **curved** , isolated, coalescing) may be identified through paleocurrent map plots, facies map sketches, recognition of lateral

...

...outer fan successions through bed correlation tests which reflect their different stratigraphic architectures and bedding **patterns** . Bedding in outer **fan** deposits (lobes) is relatively simple, parallel, and regular. The lateral bed continuity is relatively high...

?

21/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

06007809 SUPPLIER NUMBER: 70432366 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Interactions between Aboveground and Belowground Biodiversity in
Terrestrial Ecosystems: Patterns, Mechanisms, and Feed backs.**

HOOPER, DAVID U.; BIGNELL, DAVID E.; BROWN, VALERIE K.; BRUSSAARD, LIJBERT;
DANGERFIELD, J. MARK; WALL, DIANA H.; WARDLE, DAVID A.; COLEMAN, DAVID C.;
GILLER, KEN E.; LAVELLE, PATRICK; VAN DER PUTTEN, WIM H.; DE RUITER, PETER
C.; RUSEK, JOSEF; SILVER, WHENDEE L. ; TIEDJE, JAMES M.; WOLTERS, VOLKMAR
BioScience, 50, 12, 1049

Dec, 2000

ISSN: 0006-3568 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 9254 LINE COUNT: 00799

... SILVER, WHENDEE L

.... 1998. The role of soil biota in shaping flood plain morphology on
the Okavango alluvial fan, Botswana. Earth Surface Processes and
Landforms 23: 291-316.

McNaughton SJ. 1985. Ecology of a...

?

24/3,K/1 (Item 1 from file: 15)
DIALOG(R) File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00724615 93-73836
Motors, Fans & Blowers: Moving Solutions
Jancsurak, Joe
Appliance Manufacturer v40n3 PP: 24-28 Mar 1992
ISSN: 0003-679X JRNL CODE: APL
WORD COUNT: 2172

...TEXT: be lightweight, inexpensive, quiet and reliable.

To ensure reliability in light of the high reciprocating **radial** load the compressor develops, dual ball bearings were specified by Paul Vanaria, application engineer at...side plates need to be designed to withstand torquing on and off, without creating vibration."

SKEWED EFFORTS

"Our greatest emphasis is in low-noise packages via resonance reduction technology," says Rick...

...Springs, III.-based manufacturer of plastic air movement components. "One such method includes graduated blade **skews** that break up blade-pass frequencies," says Swin. The **blades** vary in terms of height and **contour**

The concept of designing each **blade** to be **different** is a departure from changing angular locations of **blades**, says Swan. "By changing the **shapes** of the **blades**, we're reducing air turbulence and overall noise levels."

Tec Air is also introducing plastic...

24/3,K/2 (Item 1 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

05843419 SUPPLIER NUMBER: 12120125 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Moving solutions. (innovations in electric motor design; includes related article on ISO 9000 standards) (Cover Story)
Jancsurak, Joe
Appliance Manufacturer, v40, n3, p24(5)
March, 1992
DOCUMENT TYPE: Cover Story ISSN: 0003-679X LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 2380 LINE COUNT: 00191

... be lightweight, inexpensive, quiet and reliable.

To ensure reliability in light of the high reciprocating **radial** load the compressor develops, dual ball bearings were specified by Paul Vanaria, application engineer at...side plates need to be designed to withstand torquing on and off, without creating vibration."

Skewed efforts

"Our greatest emphasis is in low-noise packages via resonance reduction technology," says Rick...

...Springs, III.-based manufacturer of plastic air movement components.

"One such method includes graduated blade **skews** that break up blade-pass frequencies," says Swin. The **blades** vary in terms of height and **contour** .

Me concept of designing each **blade** to be **different** is a departure from changing angular locations of **blades** , says Swin. "By changing the **shapes** of the **blades** , we're reducing air turbulence and overall noise levels."

Tec Air is also introducing plastic...

?

File 348:EUROPEAN PATENTS 1978-2005/Nov W01

(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2005/UB=20051117,UT=20051110

(c) 2005 WIPO/Univentio

Set	Items	Description
S1	1411639	TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT???
		OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2	80966	FAN??
S3	110185	BLADE??
S4	3690	(ALTER????? OR CHANG???? OR DIFFERENT?? OR NONZERO?? OR N- ON()ZERO??) (5N) (SKEW?? OR SPIRAL??)
S5	4974	RADIAL?? (5N) (CURV?? OR CURVATUR?? OR (ROUND?? OR CIRCUL??- ???) (5N) (BOUND?? OR EDG?? OR PERIMETER?? OR CIRCUMFEREN???) OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6	1445363	SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7	2076	(DISTINGUISH?? OR DIFFERENTIA????? OR DIFFER???? OR DIFFE- REC???? OR SEPARAT???? OR DISCRIMINAT???) (5N) BLAD?? (5N) S6
S8	26775	(S2 OR S3) (5N) S6
S9	19	AU=(SILVER W? OR SILVER, W?)
S10	11	S7(S) (S4 OR S5)
S11	10	S10 NOT AD=20001030:20031122/PR
S12	10	S11 NOT AD=20031122:20051122/PR
S13	5	S7(S) (SKEW?? OR SPIRA???) (S) RADIAL??
S14	5	S13 NOT S12
	?	

12/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01386816

HUMERAL SPIRAL BLADE
SPIRALFORMIGE KLINGE FÜR EIN HUMERUSIMPLANTAT
LAME SPIRALE HUMERALE

PATENT ASSIGNEE:

Synthes AG Chur, (659282), Grabenstrasse 15, 7002 Chur, (CH), (Proprietor
designated states: all)

INVENTOR:

GREEN, James, M., 6720 S.W. Canyon Drive, Portland, OR 97225, (US)
KMIEC, Stanley, J., Jr., 13 Franklin Way, Morgantown, PA 19543, (US)

LEGAL REPRESENTATIVE:

Lusuardi, Werther Giovanni (26001), Dr. Lusuardi AG, Kreuzbuhlstrasse 8,
8008 Zurich, (CH)

PATENT (CC, No, Kind, Date): EP 1284668 A1 030226 (Basic)
EP 1284668 B1 050824
WO 2001091659 011206

APPLICATION (CC, No, Date): EP 2001921096 010425; WO 2001CH258 010425

PRIORITY (CC, No, Date): US 584381 000531

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A61B-017/74

ABSTRACT WORD COUNT: 2977

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available	Text	Language	Update	Word Count
	CLAIMS	B (English)	200534	475
	CLAIMS	B (German)	200534	511
	CLAIMS	B (French)	200534	536
	SPEC	B (English)	200534	2212
Total word count - document A				0
Total word count - document B				3734
Total word count - documents A + B				3734

...SPECIFICATION uniform width at any station along longitudinal axis 10 so
that sides 6 are uniformly separated along blade 2. Blade 2 may
also be tapered so that a distance separating side surfaces 6
increases or decreases proceeding along blade 2 in the medial
direction.

As best seen in **Figure 4**, neck portion 4 joins circumferential collar
3 by a smooth transition region 12. Smooth transition region 12 reduces
stress risers that would otherwise result by a sharp change in
geometry.

In Figures 1 and 4 an exemplary embodiment of spiral blade 1 is shown
in which...

12/3,K/2 (Item 2 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01189259

ELECTRONIC CAM TYPE ROTARY CUTTER CONTROL METHOD AND ELECTRONIC CAM CURVE
GENERATING METHOD

VERFAHREN ZUR ELEKTRONISCHEN STEUERUNG EINER ROTATIONSSCHNEIDEVORRICHTUNG
MITTELS EINER STEUERKURVE SOWIE VERFAHREN ZUR ERZEUGUNG EINER
ELEKTRONISCHEN STEUERKURVE

PROCEDE DE COMMANDE D'OUTIL ROTATIF DE COUPE A CAME ELECTRONIQUE ET PROCEDE
DE GENERATION DE COURBE DE CAME ELECTRONIQUE

PATENT ASSIGNEE:

KABUSHIKI KAISHA YASKAWA DENKI, (476027), 2-1, Kurosaki-Shiroishi,
Yahatanishi-Ku, Kitakyushu-Shi, Fukuoka 806-0004, (JP), (Proprietor
designated states: all)

INVENTOR:

IKEGUCHI, Masao Kabushiki Kaisha Yaskawa Denki, 2-1, Kurosaki-Shiroishi
Yahatanishi-ku, Kitakyushu-shi, Fukuoka 806-0004, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1151830 A1 011107 (Basic)
EP 1151830 B1 040331
WO 2000041858 000720

APPLICATION (CC, No, Date): EP 2000900147 000107; WO 2000JP46 000107

PRIORITY (CC, No, Date): JP 994523 990111

DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;
IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; GB

INTERNATIONAL PATENT CLASS: B26D-001/62; B26D-005/20

ABSTRACT WORD COUNT: 143

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200145	654
CLAIMS B	(English)	200414	540
CLAIMS B	(German)	200414	511
CLAIMS B	(French)	200414	673
SPEC A	(English)	200145	7311
SPEC B	(English)	200414	6937
Total word count - document A			7967
Total word count - document B			8661
Total word count - documents A + B			16628

...SPECIFICATION and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral blade** in that only the speed in the cutting zone is proportional to $1/\cos(\theta)$...

...SPECIFICATION and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral blade** in that only the speed in the cutting zone is proportional to $1/\cos(\theta)$...

...CLAIMS and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral blade** in that only the speed in the cutting zone is proportional to $1/\cos(\theta)$...

...CLAIMS and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral blade** in that only the speed in the cutting zone is proportional to $1/\cos(\theta)$...

12/3,K/3 (Item 3 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01046944

Method of producing hydrophilic resin
Verfahren zur Herstellung eines hydrophiles Harz
Procede de preparation d'une resine hydrophile

PATENT ASSIGNEE:

Nippon Shokubai Co., Ltd., (432285), 1-1, Koraibashi 4-chome, Chuo-ku,
Osaka-shi, Osaka 541-0043, (JP), (Proprietor designated states: all)

INVENTOR:

Hatsuda, Takumi, 389-23, Uohashi, Amida-cho, Takasago-shi, Hyogo 676-0822
, (JP)

Miyake, Koji, 931-11-G-402, Hamada, Aboshi-ku, Himeji-shi, Hyogo 671-1242
, (JP)

Yano, Akito, 716-1, Yoro, Katsuhara-ku, Himeji-shi, Hyogo 671-1203, (JP)

LEGAL REPRESENTATIVE:

Muller - Hoffmann & Partner (101521), Patentanwalte, Innere Wiener
Strasse 17, 81667 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 925836 A1 990630 (Basic)
EP 925836 B1 030416

APPLICATION (CC, No, Date): EP 98124532 981222;

PRIORITY (CC, No, Date): JP 97358455 971225

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: B02C-019/22; B29B-013/10; C08J-003/12

ABSTRACT WORD COUNT: 88

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199926	1049
CLAIMS B	(English)	200316	1194
CLAIMS B	(German)	200316	958
CLAIMS B	(French)	200316	1226
SPEC A	(English)	199926	11237
SPEC B	(English)	200316	11264
Total word count - document A			12288
Total word count - document B			14642
Total word count - documents A + B			26930

...SPECIFICATION chamber 2 (in the direction of discharge of the hydrogel polymer); in particular, a rotary **blade** 8 having a grid shape made up of rotary **blades** with **different** respective **spiral** directions, provided on a rotary shaft 5 in the pulverizing chamber 2 below the place
...

...SPECIFICATION chamber 2 (in the direction of discharge of the hydrogel polymer); in particular, a rotary **blade** 8 having a grid shape made up of rotary **blades** with **different** respective **spiral** directions, provided on a rotary shaft 5 in the pulverizing chamber 2 below the place
...

...CLAIMS direction with respect to the pair of spiral rotary blades (6, 7), is a rotary **blade** (8) having a grid shape made up of rotary **blades** of **different** respective **spiral** directions.

10. The method of producing hydrophilic resin set forth in either claim 8 or...

...CLAIMS direction with respect to the pair of spiral rotary blades (6, 7), is a rotary **blade** (8) having a grid shape made up of rotary blades of different respective **spiral** directions.
10. The method of producing hydrophilic resin set forth in either claim 8 or...

12/3,K/4 (Item 4 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00645207

FLUID TREATMENT DEVICE AND METHOD
VORRICHTUNG UND VERFAHREN ZUR FLUSSIGKEITBEHANDLUNG
PROCEDE ET DISPOSITIF DE TRAITEMENT DE FLUIDE

PATENT ASSIGNEE:

ION ENTERPRISES LTD., (1835060), Unity Chambers, High East Street,
Dorchester, Dorset DT1 1HA, (GB), (Proprietor designated states: all)

INVENTOR:

BUCHANAN, John, Christopher, Sutherland, Pipshaven Forest Lane Hightown,
Ringwood Hampshire BH24 3HF, (GB)

JOSLIN, Christopher, Michael, David, 38 Barrow Close Dorchester, Dorset
DT1 2HG, (GB)

LEGAL REPRESENTATIVE:

Harris, Ian Richard (72231), D. Young & Co., 21 New Fetter Lane, London
EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 680457 A1 951108 (Basic)

EP 680457 B1 970326

EP 680457 B2 990908

WO 9417000 940804

APPLICATION (CC, No, Date): EP 94904712 940124; WO 94GB129 940124

PRIORITY (CC, No, Date): GB 9301384 930125; GB 9323546 931115; GB 9326455
931224

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
NL; PT; SE

INTERNATIONAL PATENT CLASS: C02F-005/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	9936	1418
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CLAIMS B	(German)	9936	1458
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CLAIMS B	(French)	9936	1722
----------	----------	------	------

SPEC B	(English)	9936	7914
--------	-----------	------	------

Total word count - document A			0
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Total word count - document B			12512
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Total word count - documents A + B			12512
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...SPECIFICATION example, they could be formed with ridges, or the blades could be configured to define **spiral** passages so that the **water** is forced to follow a corkscrew shaped path through the device. By **alternating** the direction of the **spiral** for successive sets of blades, passing along the device from the upstream to the downstream end, the water could be forced to follow and alternating left and right **hand** corkscrew path. This enhances turbulence and mixing of the **water** from the **separate** channels in the spaces 59 between successive sets of blades 58.

Figure 5 illustrates a further embodiment where a metallic channel

separator 40, as illustrated in **Figure 3**, is additionally provided. Direct electrical connection is provided between the metallic channel separator 40...

12/3,K/5 (Item 5 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00450623

VARIABLE SKEW FAN.

GEBLASE MIT ANDERLICHEN SCHIEFSTAND.

SOUFFLANTE A OBLIQUE VARIABLE.

PATENT ASSIGNEE:

AIRFLOW RESEARCH & MANUFACTURING CORP., (399660), 304 Pleasant Street,
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INVENTOR:

VAN HOUTEN, Robert, J., 14 Lloyd Street, Winchester, MA 01890, (US)
DAIUTE, David, 121 A.E. Union Street, Ashland, MA 01721, (US)

LEGAL REPRESENTATIVE:

Deans, Michael John Percy et al (30021), Lloyd Wise, Tregeare & CO. Norman
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PATENT (CC, No, Kind, Date): EP 487563 A1 920603 (Basic)
EP 487563 B1 950927
WO 9102165 910221

APPLICATION (CC, No, Date): EP 90911885 900810; WO 90US4515 900810

PRIORITY (CC, No, Date): US 392769 890811

DESIGNATED STATES: DE; ES; FR; GB; IT; SE

INTERNATIONAL PATENT CLASS: F04D-029/38; F04D-029/32;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB95	186
CLAIMS B	(German)	EPAB95	188
CLAIMS B	(French)	EPAB95	216
SPEC B	(English)	EPAB95	1368
Total word count - document A			0
Total word count - document B			1958
Total word count - documents A + B			1958

...SPECIFICATION hub 12 to their respective tips, where they are joined to band 11.

The fan **blades** have **different** shapes, with each of the **blades** having a **different** "blade skew." The **blade skew** is defined as the angle A(sub(b)) between the midpoint (M(sub(r))) of...

12/3,K/6 (Item 6 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00414233

Fluid compressor.

Flussigkeitsverdichter.

Compresseur a fluide.

PATENT ASSIGNEE:

KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho Saiwai-ku,

Kawasaki-shi Kanagawa-ken 210, (JP), (applicant designated states: DE;GB;IT)

INVENTOR:

Aikawa, Eiichi, c/o Intellectual Property Division, Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)
Fujiwara, Takayoshi, c/o Intellectual Property Div, Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)
Honma, Hisanori, c/o Intellectual Property Div., Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)
Sone, Yoshinori, c/o Intellectual Property Div., Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)

LEGAL REPRESENTATIVE:

Henkel, Feiler, Hanzel & Partner (100401), Mohlstrasse 37, D-81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 416224 A2 910313 (Basic)
EP 416224 A3 910703
EP 416224 B1 930818

APPLICATION (CC, No, Date): EP 90111475 900618;

PRIORITY (CC, No, Date): JP 89231413 890908; JP 89233411 890908

DESIGNATED STATES: DE; GB; IT

INTERNATIONAL PATENT CLASS: F04C-018/107;

ABSTRACT WORD COUNT: 149

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	486
CLAIMS B	(German)	EPBBF1	409
CLAIMS B	(French)	EPBBF1	497
SPEC B	(English)	EPBBF1	3504
Total word count - document A			0
Total word count - document B			4896
Total word count - documents A + B			4896

...SPECIFICATION spiral groove in the rotating rod. More specifically, the blade, having the pitches and shape **different** from those of the **spiral** groove, is extended in its axial direction and elastically deformed so as to accord with...

...rotating rod. However, if the blade is elastically deformed in its axial direction to a **considerable** degree, the **shape** of **the** **respective** portions of the **blade** do not accord with the corresponding portions of the spiral groove. Thus, the respective portions...

12/3,K/7 (Item 7 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS

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00310443

Slurry stirrer.

Schlammruhrer.

Agitateur a bouillie.

PATENT ASSIGNEE:

Elliott, John Swift, (956660), Little Chillaton Farm Chillaton, Loddiswell near Kingsbridge South Devon, (GB), (applicant designated states: AT;BE;DE;FR;GB;NL)

INVENTOR:

Elliott, John Swift, Little Chillaton Farm Chillaton, Loddiswell near Kingsbridge South Devon, (GB)

PATENT (CC, No, Kind, Date): EP 283316 A1 880921 (Basic)

EP 283316 B1 940518
APPLICATION (CC, No, Date): EP 88302420 880318;
PRIORITY (CC, No, Date): GB 8706487 870319; GB 8722123 870921
DESIGNATED STATES: AT; BE; DE; FR; GB; NL
INTERNATIONAL PATENT CLASS: A01C-003/02; B01F-007/00;
ABSTRACT WORD COUNT: 116

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	304
CLAIMS B	(German)	EPBBF1	277
CLAIMS B	(French)	EPBBF1	281
SPEC B	(English)	EPBBF1	3224
Total word count - document A			0
Total word count - document B			4086
Total word count - documents A + B			4086

...SPECIFICATION Figure 2B, an alternative form of impeller comprises a similar tubular shaft 14 having two **blades** 30 (only one of which is shown in **Figure 2B**) welded at an angle of about 60(degree) to the axis thereof. The blades 30 have substantially straight **radial** leading **edges** 31 and **rounded** trailing **edges** and **circumferential** flanges 33 welded around part of the circumference of the blades 30. In view of...

12/3,K/8 (Item 1 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00268827 **Image available**
FLUID TREATMENT DEVICE AND METHOD
PROCEDE ET DISPOSITIF DE TRAITEMENT DE FLUIDE
Patent Applicant/Assignee:
ION ENTERPRISES LTD,
BUCHANAN John Christopher Sutherland,
JOSLIN Christopher Michael David,
Inventor(s):
BUCHANAN John Christopher Sutherland,
JOSLIN Christopher Michael David,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9417000 A1 19940804
Application: WO 94GB129 19940124 (PCT/WO GB9400129)
Priority Application: GB 931384 19930125; GB 9323546 19931115; GB 9326455
19931224

Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG
MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ VN AT BE CH DE DK ES FR GB
GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 9812

Fulltext Availability:
Detailed Description

Detailed Description
... that the water
is forced to follow a corkscrew shaped path through the device. By alternating the direction of the **spiral** for successive sets of

blades,
passing along the device from the upstream to the downstream...

...and right hand
corkscrew path. This enhances turbulence and mixing of the water from
the **separate** channels in the spaces 59 between successive sets of
blades 58.

Figure 5 illustrates a further embodiment where a metallic
channel **separator** 40, as illustrated in Figure 3, is additionally
provided. Direct electrical connection is provided between...

12/3,K/9 (Item 2 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00184823

VARIABLE SKEW FAN

SOUFLANTE A OBLIQUE VARIABLE

Patent Applicant/Assignee:

AIRFLOW RESEARCH AND MANUFACTURING CORPORATION,

Inventor(s):

VAN HOUTEN Robert J,

DAIUTE David,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9102165 A1 19910221

Application: WO 90US4515 19900810 (PCT/WO US9004515)

Priority Application: US 89769 19890811

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AT BE CH DE DK ES FR GB IT JP LU NL SE

Publication Language: English

Fulltext Word Count: 1538

Fulltext Availability:

Detailed Description

Detailed Description

... hub 12 to their respective tips, where they are
joined to band 11.

The fan **blades** have **different** shapes, with each of
the **blades** having a **different** "blade **skew**," The **blade**
skew is defined as the angle Ab between the midpoint (Mr)
of the blade root and...

12/3,K/10 (Item 3 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00124405

SOLID MATERIALS PUMP

POMPE POUR MATERIAUX SOLIDES

Patent Applicant/Assignee:

METAL TECHNOLOGIES INC,

Inventor(s):

CORKILL William M,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8502658 A1 19850620

Application: WO 84US2036 19841212 (PCT/WO US8402036)

Priority Application: US 83283 19831215

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT AU BE BR CH DE FI FR GB JP KR LU NL NO SE

Publication Language: English

Fulltext Word Count: 3657

Fulltext Availability:

Detailed Description

Detailed Description

... namely the blade surface 156, the cylindrical surface 167, and the tangential surface 165. The **blade** surface 156, as best shown in **Figure 7**, **differs** from that configuration as shown in **Figure 3**. In particular, the **blade** surface 156 includes a first curved portion 156a that is defined as the curve of...

...fixed point. The fixed point of rotation is determined such that a tangent to the **curved** portion 156a disposed at the **radial** edge 158 forms an angle α' with respect to the leading surface 163. The trailing...

?

14/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01316878

A METHOD AND A DEVICE FOR GAS TREATMENT
VERFAHREN UND VORRICHTUNG ZUR GASBEHANDLUNG
PROCEDE ET DISPOSITIF POUR LE TRAITEMENT D'UN GAZ

PATENT ASSIGNEE:

NORSK HYDRO ASA, (3252320), , 0240 Oslo, (NO), (Proprietor designated states: all)

INVENTOR:

EIMER, Dag, Arne, Kvartsv. 21, N-3931 Porsgrunn, (NO)

LEGAL REPRESENTATIVE:

Bleukx, Lucas Lodewijk M. (19399), Bleukx Consultancy BVBA Rijksweg 237, 3650 Dilsen-Stokkem, (BE)

PATENT (CC, No, Kind, Date): EP 1242164 A1 020925 (Basic)

EP 1242164 B1 040602

WO 2001045825 010628

APPLICATION (CC, No, Date): EP 2000980131 001204; WO 2000NO411 001204

PRIORITY (CC, No, Date): NO 996410 991222

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B01D-053/00; F01N-005/00; F28D-011/02; F28F-005/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200423	975
CLAIMS B	(German)	200423	917
CLAIMS B	(French)	200423	1132
SPEC B	(English)	200423	6519
Total word count - document A			0
Total word count - document B			9543
Total word count - documents A + B			9543

...SPECIFICATION The grooves do not need to be continuous, and they may also be intermittent and **shaped** into a **blade pattern** as shown in Fig. 2.

Fig. 16 shows a **different** approach to building a gas treating entity 3 based on a functional element for mass...

...packing 230 where the gas 1 moves axially and the auxiliary liquid (not shown) moves **radially** as in the previous figures. As before, the functional element is mounted on the hollow...

14/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00813555

AXIAL FLOW FAN

AXIALLUFTER

VENTILATEUR A ECOULEMENT AXIAL

PATENT ASSIGNEE:

VALEO THERMIQUE MOTEUR, (1119260), 8, rue Louis-Lormand, La Verriere,

78320 Le Mesnil Saint-Denis, (FR), (Proprietor designated states: all)
INVENTOR:

ALIZADEH, Ahmad, 9409 Aspen Grove Lane, Indianapolis, IN 46250, (US)
LEGAL REPRESENTATIVE:

Neobard, William John (76881), Page White & Farrer 54 Doughty Street,
London WC1N 2LS, (GB)

PATENT (CC, No, Kind, Date): EP 766791 A1 970409 (Basic)

EP 766791 B1 020619

WO 9633345 961024

APPLICATION (CC, No, Date): EP 96913518 960418; WO 96EP1660 960418

PRIORITY (CC, No, Date): US 425991 950419

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS: F04D-029/38

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	200225	546
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CLAIMS B	(German)	200225	517
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CLAIMS B	(French)	200225	600
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SPEC B	(English)	200225	3387
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Total word count - document A			0
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Total word count - document B			5050
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Total word count - documents A + B			5050
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...SPECIFICATION may have more than one peak and trough.

The described embodiment has an overall forward **skew**, as seen by the medial line (23) in Figure 2. This however is a property...

...in other words the medial line and the leading and trailing edges could be substantially **radial**, or the leading edge could be **skewed** one way and the trailing edge **skewed** the other way to produce a conical effect. Any other **skew** is also envisaged. Although the invention has been described with respect to a five bladed...

...of blades could be provided. Finally the solidity ratio of the fan could be substantially **different** to that shown.

Turning to **Figure 8**, the thickness of the **blade** could be varied between the leading edge and the trailing edge. Specifically as the **radially** outer part of the leading edge carries the highest load, the trailing edge of the...

14/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00465670

Method and apparatus for the wet separation of heterogeneous mixtures containing solids having different densities.

Verfahren und Vorrichtung zum nassen Trennen von heterogenen Mischungen aus Feststoffen unterschiedlicher Dichte.

Procede et dispositif pour la separation humide de melanges heterogenes contenant des solides de densites differentes.

PATENT ASSIGNEE:

OFFICINE MECCANICHE FERRERO S.p.A., (945190), Via Privata Trento n. 4,
I-17047 Vado Ligure (Sv), (IT), (applicant designated states:
AT;BE;CH;DE;DK;ES;FR;GB;GR;LI;LU;NL;SE)

INVENTOR:

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(IT)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 469360 A2 920205 (Basic)
EP 469360 A3 920318
EP 469360 B1 940126

APPLICATION (CC, No, Date): EP 91111589 910712;

PRIORITY (CC, No, Date): IT 9012501 900802

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: B03B-005/28; B03B-005/62;

ABSTRACT WORD COUNT: 151

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	681
CLAIMS B	(German)	EPBBF1	647
CLAIMS B	(French)	EPBBF1	737
SPEC B	(English)	EPBBF1	2154
Total word count - document A			0
Total word count - document B			4219
Total word count - documents A + B			4219

...SPECIFICATION its downward motion towards the impeller and even
water-repellent items which tend to float are entering the liquid
whirlpool and entrained downwards. The dispersed mixture thus obtained is
hurled outwards...

...flow over the edge 4 to be discharged through the drain channel 5
whereas another part will be drawn back to the center of the dispersion
chamber 2 to start another...

14/3,K/4 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00812565 **Image available**

A METHOD AND A DEVICE FOR GAS TREATMENT

PROCEDE ET DISPOSITIF POUR LE TRAITEMENT D'UN GAZ

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Detailed Description

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... The grooves do not need to be continuous, and they may also be intermittent and **shaped** into a **blade pattern** as shown in Fig. 2.

Fig. 16 shows a **different** approach to building a gas treating entity 3 based on a functional element for mass...

...packing 230 where the gas 1 moves axially and the auxiliary liquid (not shown) moves **radially** as in the previous figures. As before, the functional element is mounted on the hollow...

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APPARATUS FOR MANUFACTURING THERMOPLASTIC RESIN FOAM PELLETS
APPAREIL DESTINE A LA FABRICATION DE GRANULES EN MOUSSE DE RESINE
THERMOPLASTIQUE

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Detailed Description

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... which are

individually locked to the two rings 26 and 27 at both ends and **spirally** extend along the rounded external surface of the cylindrical die 11 at the position around the **radial** resin extrusion ports 23 of the die 11, **spirally** move on the rounded external surface of the die

while coming into close contact with...

...steel wires 30 thus continuously cut the thermoplastic resin foam lines coming out of the **radial** resin extrusion ports 23 of the die 11 into pellets having a predetermined length, thus...

...line cutting operation of this apparatus is almost free from operational noise or operational vibration **different** from a conventional apparatus having panel- **shaped** cutting **blades**. The apparatus of this invention also effectively produces uniform-sized and uniform-shaped thermoplastic resin...

...30 of this invention have a diameter of 0.3 mm - 2.0 mm and **spirally** move on the rounded external surface of the die 11 while coming into close contact...

...of this invention is almost free from a generation of frictional heat or air current **different** from the conventional apparatus having the panel- **shaped** cutting **blades**. Since the apparatus is free from frictional heat, desired resin foam extruding conditions in addition...